AMENDMENTS TO THE CLAIMS

The claims are listed purely for the convenience of the Examiner. No claims have been amended or canceled:

1. (Original) An image processing method for obtaining processed image data by carrying out tone conversion processing and color correction processing on image data obtained by a digital camera, the image processing method comprising the steps of:

generating a three-dimensional look-up table for carrying out the tone conversion processing and the color correction processing on the image data; and

obtaining the processed image data by converting the image data according to the three-dimensional look-up table.

- 2. (Original) An image processing method as defined in Claim 1, wherein the step of generating the three-dimensional look-up table is a step of generating the three-dimensional look-up table for a model of the digital camera.
- 3. (Original) An image processing method as defined in Claim 1, further comprising a step of setting a number of lattice points in the three-dimensional look-up table according to a number of bits of the image data.

U.S. Application No. 09/842,771 Docket No. 2091-242P

D 4 CO1

Page 4 of 21

4. (Original) An image processing method as defined in any one of

Claims 1 to 3, further comprising a step of:

comparing a number of pixels in an image represented by the image data

with the number of lattice points in the three-dimensional look-up table,

the step of generating the three-dimensional look-up table being a step of

generating the three-dimensional look-up table in the case where the number

of the pixels is larger than the number of the lattice points, and

the step of obtaining the processed image data being a step of obtaining

the processed image data by converting the image data according to the three-

dimensional look-up table in the case where the number of the pixels is larger

than the number of the lattice points, and by carrying out the tone conversion

processing and the color correction processing on each of the pixels in the

image represented by the image data in the case where the number of the

pixels is equal to or smaller than the number of the lattice points.

Docket No. 2091-242P

Page 5 of 21

5. (Original) An image processing method for obtaining processed

image data by carrying out tone conversion processing and color correction

processing on image data, the image processing method comprising the steps

of:

comparing a number of lattice points in a three-dimensional look-up

table used for carrying out the tone conversion processing and the color

correction processing on the image data with a number of pixels in an image

represented by the image data;

generating the three-dimensional look-up table and obtaining the

processed image data by converting the image data according to the three-

dimensional look-up table in the case where the number of the pixels is larger

than the number of the lattice points; and

obtaining the processed image data by carrying out the tone conversion

processing and the color correction processing on each of the pixels in the

image represented by the image data, in the case where the number of the

pixels is equal to or smaller than the number of the lattice points.

6. (Original) An image processing method as defined in Claim 5,

further comprising a step of setting the number of lattice points in the three-

dimensional look-up table according to the number of bits of the image data.

U.S. Application No. 09/842,771 Docket No. 2091-242P

Page 6 of 21

7. (Original) An image processing apparatus for obtaining processed

image data by carrying out tone conversion processing and color correction

processing on image data obtained by a digital camera, the image processing

apparatus comprising:

three-dimensional look-up table generating means for generating a three-

dimensional look-up table used for carrying out the tone conversion processing

and the color correction processing on the image data; and

processing means for obtaining the processed image data by converting

the image data according to the three-dimensional look-up table.

8. (Original) An image processing apparatus as defined in Claim 7,

wherein the three-dimensional look-up table generating means generates the

three-dimensional look-up table according to a model of the digital camera.

9. (Original) An image processing apparatus as defined in Claim 7,

wherein the three-dimensional look-up table generating means sets the

number of lattice points of the three-dimensional look-up table according to the

number of bits of the image data.

10. (Original) An image processing apparatus as defined in any one of

Claims 7 to 9, the three-dimensional look-up table generating means being

means for comparing the number of pixels of an image represented by the

image data with the number of lattice points in the three-dimensional look-up

table, and for generating the three-dimensional look-up table if the number of

the pixels is larger than the number of the lattice points, and

the processing means being means for obtaining the processed image

data by converting the image data according to the three-dimensional look-up

table if the number of the pixels is larger than the number of the lattice points,

and for obtaining the processed image data by carrying out the tone conversion

processing and the color correction processing on each of the pixels of the

image represented by the image data if the number of the pixels is equal to or

smaller than the number of the lattice points.

11. (Original) An image processing apparatus for obtaining processed

image data by carrying out tone conversion processing and color correction

processing on image data, the image processing apparatus comprising:

three-dimensional look-up table generating means for comparing the

number of lattice points in a three-dimensional look-up table used for the tone

conversion processing and the color correction processing on the image data

with the number of pixels in an image represented by the image data, and for

generating the three-dimensional look-up table in the case where the number

of the pixels is larger than the number of the lattice points; and

Docket No. 2091-242P

Page 8 of 21

processing means for obtaining the processed image data by converting

the image data according to the three-dimensional look-up table in the case

where the number of the pixels is larger than the number of the lattice points,

and for obtaining the processed image data by carrying out the tone conversion

processing and the color correction processing on each of the pixels in the

image represented by the image data, in the case where the number of the

pixels is equal to or smaller than the number of the lattice points.

12. (Original) An image processing method as defined in Claim 11,

wherein the three-dimensional look-up table generating means sets the

number of the lattice points in the three-dimensional look-up table according

to the number of bits of the image data.

13. (Original) A computer-readable recording medium storing a

program to cause a computer to execute an image processing method for

obtaining processed image data by carrying out tone conversion processing and

color correction processing on image data obtained by a digital camera, the

program comprising the procedures of:

generating a three-dimensional look-up table for carrying out the tone

conversion processing and the color correction processing on the image data;

and

Docket No. 2091-242P

Page 9 of 21

obtaining the processed image data by converting the image data

according to the three-dimensional look-up table.

14. (Original) A computer-readable recording medium as defined in

Claim 13, wherein the procedure of generating the three-dimensional look-up

table is the procedure of generating the three-dimensional look-up table for a

model of the digital camera.

15. (Original) A computer-readable recording medium as defined in

Claim 13, the program further comprising the procedure of setting the number

of lattice points in the three-dimensional look-up table according to the

number of bits of the image data.

16. (Original) A computer-readable recording medium as defined in any

one of Claims 13 to 15, the program further comprising the procedure of:

comparing the number of pixels in an image represented by the image

data with the number of lattice points in the three-dimensional look-up table,

the procedure of generating the three-dimensional look-up table being

the procedure of generating the three-dimensional look-up table in the case

where the number of the pixels is larger than the number of the lattice points,

and

the procedure of obtaining the processed image data being the procedure

of obtaining the processed image data by converting the image data according

to the three-dimensional look-up table in the case where the number of the

pixels is larger than the number of the lattice points, and by carrying out the

tone conversion processing and the color correction processing on each of the

pixels in the image represented by the image data in the case where the

number of the pixels is equal to or smaller than the number of the lattice

points.

17. A computer-readable recording medium storing a program to cause

a computer to execute an image processing method for obtaining processed

image data by carrying out tone conversion processing and color correction

processing on image data, the program comprising the procedures of:

comparing a number of lattice points in a three-dimensional look-up

table used for carrying out the tone conversion processing and the color

correction processing on the image data with a number of pixels in an image

represented by the image data;

generating the three-dimensional look-up table and obtaining the

processed image data by converting the image data according to the three-

dimensional look-up table in the case where the number of the pixels is larger

than the number of the lattice points; and

Docket No. 2091-242P

Page 11 of 21

obtaining the processed image data by carrying out the tone conversion

processing and the color correction processing on each of the pixels in the

image represented by the image data, in the case where the number of the

pixels is equal to or smaller than the number of the lattice points.

18. (Original) A computer-readable recording medium as defined in

Claim 17, the program further comprising a procedure of setting the number of

lattice points in the three-dimensional look-up table according to a number of

bits of the image data.